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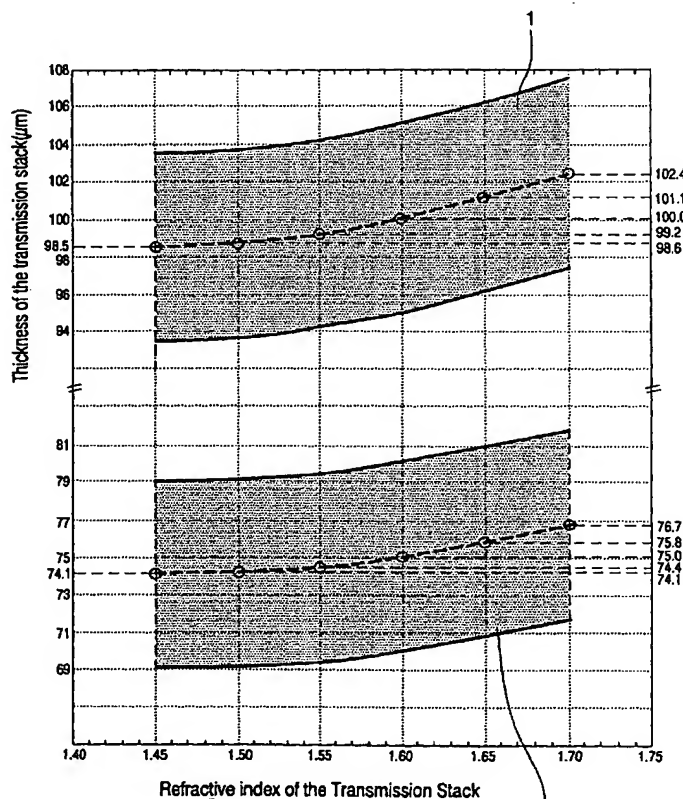
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(54) Title: DUAL STACK OPTICAL DATA STORAGE MEDIUM AND USE OF SUCH MEDIUM



(57) Abstract: A dual-stack optical data storage medium (20) is described for read out using a focused radiation beam (29) with a wavelength of 400 - 410 nm and a Numerical Aperture (NA) of 0.84 - 0.86. The medium has a substrate (21) and a first stack of layers named L0 (22) comprising a first information layer and a second stack of layers named L1 (23), comprising a second information layer. A radiation beam (29) transparent spacer layer (24) is present between L0 and L1. A transmission stack named TS0 with a thickness d_{TS0} and an effective refractive index n_{TS0} contains all layers between L0 and an entrance face (26) of the medium (20). A transmission stack named TS1 with a thickness d_{TS1} and an effective refractive index n_{TS1} containing all layers between L1 and the entrance face (26). The spacer layer (24) has a thickness selected from the range 20 - 30 μm, the thickness d_{TS0} in dependence on the refractive index n_{TS0} and the thickness d_{TS1} in dependence on the refractive index n_{TS0} are within a specified area. In this way a reliable read out of both the first and the second information layer of respectively L0 and L1 is achieved.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 172 811 A (MATSUSHITA ELECTRIC IND CO LTD) 16 January 2002 (2002-01-16)	1,3-5
Y	paragraphs '0043!-'0047!; '0075!; figure 1	2
Y	EP 1 152 406 A (SONY CORP) 7 November 2001 (2001-11-07) paragraphs '0018!-'0031! paragraphs '0087!; '0088!	2
A	US 6 246 656 B1 (KASHIWAGI TOSHIYUKI ET AL) 12 June 2001 (2001-06-12) column 9, line 13-45	1-5



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